

Village Power Bibliography and Conferences Attended in 1999

by Julie A. Cardinal 1/00

Abstracts and full-text documents are available on the National Renewable Energy Laboratory (NREL) Web Site (<http://www.nrel.gov>) and the Renewables for Sustainable Village Power (RSVP) Web Site (<http://www.rsvp.nrel.gov>).

1999

Barley, C.D.; Flowers, L.T.; Benavidez, P.J.; Abergas, R.L.; Barruela, R.B. (1999). "Feasibility of Hybrid Retrofits to Off-Grid Diesel Power Plants in the Philippines." NREL/CP-500-26927. Golden, CO: National Renewable Energy Laboratory.

Baring-Gould, E.I.; Flowers, L.T. (1999). "Rural Wind-Hybrid Pilot Projects in Chile: Operational and Performance Results." Prepared for Windpower '99, Burlington, VT, June 20-23, 1999.

Cardinal, J.; Flowers, L.; Siegel, J.; Taylor, R.; Weingart, J. (1999). *Proceedings of Village Power '98. Vols. I and II. October 6-8, 1998, Washington, D.C.* NREL/CP-500-26264. Golden, CO: National Renewable Energy Laboratory.

Drouilhet, S. (1999). "Power Flow Management in a High-Penetration Wind-Diesel Hybrid Power System with Short-Term Energy Storage." NREL/CP-500-26827. Golden, CO: National Renewable Energy Laboratory.

Gevorgian, V.; Touryan, K.; Bezrukikh, P.; Bezrukikh, P., Jr.; Karghiev, V. (1999). "Wind-Diesel Hybrid Systems for Russia's Northern Territories." NREL/CP-500-27114. Golden, CO: National Renewable Energy Laboratory.

Touryan, J.O.V.; Touryan, K.J. (1999). "Renewable Energy for Sustainable Rural Village Power." NREL/CP-720-26871. Golden, CO: National Renewable Energy Laboratory.

1998

Adamian, S.; Elliott, G.; Touryan, K. (1998). "Pre-Feasibility Evaluation for a Biomass-to-Energy Pilot Project at Verkhni-Ozerski Village,

Arkhangelsk Region, Russia." *Renewable Energy Technologies in Cold Climates '98: Proceedings of an International Conference Incorporating the 24th Annual Conference of the Solar Energy Society of Canada, Inc. (SESCI)*, May 4-6, 1998, Montreal, Quebec, Canada: Solar Energy Society of Canada, Inc.; pp. 428-434; NICH Report No. 26248.

Burch, J.D.; Thomas, K.E. (1998). *Overview of Water Disinfection in Developing Countries and the Potential for Solar Thermal Water Pasteurization.* NREL/TP-550-23110. Golden, CO: National Renewable Energy Laboratory.

Flowers, L. (1998). "Lessons Learned-NREL Village Power Program." NREL/CP-500-24938. Presented at Windpower '98, Bakersfield, CA, April 27-May 1, 1998.

Gevorgian, V.; Corbus, D.; Drouilhet, S.; Holz, R.; Thomas, K.E. (1998). "Modeling, Testing and Economic Analysis of Wind-Electric Battery-Charging Station." NREL/CP-500-24920. Presented at Windpower '98, Bakersfield, CA, April 27-May 1, 1998.

Holz, R.; Drouilhet, S.; Gevorgian, V. (1998). "Wind-Electric Ice-Making Investigation." NREL/CP-500-24662. Presented at Windpower '98, Bakersfield, CA, April 27-May 1, 1998.

Holz, R.; Gevorgian, V.; Drouilhet, S.; Muljadi, E. (1998). *Wind Electric Icemarketing Project: Analysis and Dynamometer Testing. Vols. I and II.* NREL/TP-500-24010. Golden, CO: National Renewable Energy Laboratory.

Jimenez, A.C. (1998). *Optimal Design of Stand-Alone Power Systems for Remote Rural Health Facilities.* Master's Thesis. Fort Collins, CO: Colorado State University.

Jimenez, A.C.; Olson, K. (1998). *Renewable Energy for Rural Health Clinics.* NREL/BK-500-25233. Golden, CO: National Renewable Energy Laboratory.

Jimenez, A.C.; Olson, K. (1998). *Energía Renovable para Centros de Salud Rurales.*

- NREL/BK-500-26224. Golden, CO: National Renewable Energy Laboratory.
- Taylor, R. (1998). "Lessons Learned from the NREL Village Power Program." NREL/CP-210-25032. Golden, CO: National Renewable Energy Laboratory.
- ## 1997
- Baring-Gould, E.I.; Barley, C.D.; Drouilhet, S.; Flowers, L.; Jimenez, T.; Lilienthal, P.; Weingart, J.; Soetendro, H.; Gultom, D.P. (1997). "Diesel Plant Retrofitting Options to Enhance Decentralized Electricity Supply in Indonesia." NREL/CP-440-23237. Presented at Windpower '97, Austin, TX, June 15-18, 1997.
- Barley, C.D.; Lew, D.J.; Flowers, L. (1997). "Sizing Wind/Photovoltaic Hybrids for Households in Inner Mongolia." NREL/CP-440-23116. Presented at Windpower '97, Austin, TX, June 15-18, 1997.
- Cardinal, J.; Flowers, L.; Taylor, R.; Weingart, J. (1997). *Proceedings of Village Power '97. April 14-15, 1997; Arlington, Virginia.* NREL/CP-440-23409. Golden, CO: National Renewable Energy Laboratory; 521 pp.
- Corbus, D.; Bergey, M. (1997). "Costa de Cocos 11-kW Wind-Diesel Hybrid System." NREL/CP-440-23296. Presented at Windpower '97, Austin, TX, June 15-18, 1997.
- Flowers, L. (1997). "Renewables for Sustainable Village Power." NREL/CP-440-22608. Prepared for the International Conference on Village Electrification through Renewable Energy, New Delhi, India, March 3-5, 1997.
- Holz, R.; Baring-Gould, E.I.; Corbus, D.; Flowers, L.; McAllister, J.A. (1997). "Initial Results from the Operation of Village Hybrid Systems in Chile." NREL/CP-440-23436. Presented at Windpower '97, Austin, TX, June 15-18, 1997.
- Lambert, T.W. (1997). *Optimization of Autonomous Village Electrification Systems by Simulated Annealing.* Master's Thesis. Fort Collins, CO: Colorado State University.
- Lew, D.J.; Barley, C.D.; Flowers, L. (1997). "Hybrid Wind/Photovoltaic Systems for Households in Inner Mongolia." Prepared for the International Conference on Village Electrification through Renewable Energy, New Delhi, India, March 3-5, 1997.
- Niewoehner, J.; Larson, R.; Azrag, E.; Hailu, T.; Horner, J.; VanArsdale, P. (March 1997). *Opportunities for Renewable Energy Technologies in Water Supply in Developing Country Villages.* NREL/SR-430-22359. Golden, CO: National Renewable Energy Laboratory.
- Shirazi, M.; Drouilhet, S. (1997). "An Analysis of the Performance Benefits of Short-Term Energy Storage in Wind-Diesel Hybrid Power Systems." NREL/CP-440-22108. Prepared for 1997 ASME Wind Energy Symposium, Reno, NV, January 6-9, 1997.
- Thomas, K.E. (1997). *Overview of Village-Scale, Renewable Energy-Powered Desalination.* NREL/TP-440-22083. Golden, CO: National Renewable Energy Laboratory.
- ## 1996
- Baring-Gould, E.I. (1996). *Hybrid2 Version 1.0 User Manual.* NREL/TP-440-21272. Golden, CO: National Renewable Energy Laboratory.
- Baring-Gould, E.I.; Green, H.J.; van Dijk, V.A.P.; Manwell, J. (1996). "Hybrid2-The Hybrid Power System Simulation Model." NREL/TP-440-21506. Prepared for AWEA Windpower '96, Denver, CO, June 23-27, 1996.
- Barley, C.D. (1996). *Modeling and Optimization of Dispatch Strategies for Remote Hybrid Power Systems.* Ph.D. Thesis. Fort Collins, CO: Colorado State University.
- Castedo, S.; Corbus, D.; Flowers, L.; Holz, R.; Lew, D.; McAllister, A. (1996). "Wind Hybrid Systems Applications for Rural Electrification: The Case Study of Chile." Zervos, A.; Ehmann, H.; Helm, P., eds. *Proceedings of the 1996 European Union Wind Energy International Conference*, May 20-24, 1996, Goteborg, Sweden. United Kingdom: H.S. Stephens and Associates; pp. 301-304; NICH Report No. 26182.
- Corbus, D.; Green, H.J.; Allderdice, A.; Rand, K.; Bianchi, J. (1996). "Testing of a 50-kW Wind-Diesel Hybrid System at the National Wind Technology Center." NREL/TP-440-21499. Prepared for AWEA Windpower '96, Denver, CO, June 23-27, 1996.
- Drouilhet, S.; Meiners, D.; Reeve, B. (1996). "A High-Penetration Wind-Diesel Hybrid Power System Pilot Project in Northwest Alaska." Prepared for Powersystems World '96, Las Vegas, NV, September 7-13, 1996.
- Green, H.J. (1996). Hybrid Power Test Bed. NREL/SP-440-20496. Golden, CO: National Renewable Energy Laboratory.
- Lew, D.J.; Corbus, D.; Holz, R.; Flowers, L.; McAllister, J.A. (1996). "Analysis of Village Hybrid Systems in Chile." NREL/TP-440-21275. Prepared for AWEA Windpower '96, Denver, CO, June 23-27, 1996.
- McGowan, J.G.; Manwell, J.; Avelar, C.; Warner, C. (1996). "Design and Evaluation of Hybrid Wind/PV/Diesel Power Systems for Brazilian Applications." *Windpower 1996: Proceedings of*

the American Wind Energy Association Conference, June 23-27, 1996, Denver, Colorado.

Muljadi, E.; Flowers, L.; Green, J.; Bergey, M. (1996). "Electric Design of Wind-Electric Water Pumping Systems." *Journal of Solar Energy Engineering: Transactions of the American Society of Mechanical Engineers* (118:4); pp. 246-252.

1995

Barley, C.D.; Winn, C.B.; Flowers, L.; Green, H. J. (1995). "Optimal Control of Remote Hybrid Power Systems Part 1: Simplified Model." NREL/TP-441-7806. Prepared for Windpower '95, Washington, D.C., March 27-30, 1995.

Castedo, S.; Barrera, J.; Suarez, G.; Flowers, L.; Corbus, D. (1995). "Renewable Energy Options for the Electrification of Rural Schools in Argentina." *Windpower '95: Proceeding of the Annual Conference and Exhibition of the American Wind Energy Association, March 26-30, 1995, Washington, D.C.*

Davis, H.; Brandemuehl, M.; Bergey, M. (1995). "Performance of a Stand-Alone Wind-Electric Ice Maker for Remote Villages." NREL/TP-441-7223. Prepared for Fourteenth ASME-ETCE Wind Energy Symposium, Houston, TX, January 29-February 1, 1995.

Drouilhet, S.; Muljadi, E.; Holz, R.; Gevorgian, V. (1995). "Optimizing Small Wind Turbine Performance in Battery Charging Applications." NREL/TP-441-7808. Prepared for Windpower '95, Washington, D.C., March 27-30, 1995.

Holz, R.G. (1995). *Wind-Electric Icemaking Project: Phase II.* Master's Thesis Project. Boulder, CO: University of Colorado.

Holz, R.; Corbus, D.; Aguilar, I.; Hurley, P. (1995). "Hourly Simulations of Hybrid Renewable Energy Systems for San Cristobal/Santa Barbara, Guatemala." NREL/TP-463-7230. Prepared for Fourteenth ASME-ETCE Wind Energy Symposium, Houston, Texas, January 29-February 1, 1995.

1994

Davis, H.C. (1994). *Wind-Electric Ice Making for Developing World Villages.* Master's Thesis. Palo Alto, CA: Stanford University.

Flowers, L.; Green, H.J.; Bergey, M.; Lilley, A.; Mott, L. (1994). "Village Power Hybrid Systems Development in the United States." NREL/TP-442-7227. Prepared for European Wind Energy Conference, Thessaloniki, Greece, October 10-14, 1994.

Green, H.J.; Clark, R.N.; Brothers, C.; Saulnier B. (1994). "Wind/Hybrid Power System Test Facilities in the United States and Canada." NREL/TP-441-6626. Prepared for Windpower '94, Minneapolis, MN, May 9-13, 1994.

1993

Flowers, L.; Rackstraw, K.; Bergey, M.; Lilley, A.; Pate, R. (1993). "Decentralized Wind Electric Applications for Developing Countries." Prepared for Windpower '93, San Francisco, CA, July 12-16, 1993.

Conferences Attended in 1999

APEC Energy R&D and Technology Transfer Workshop

Caribbean Renewable Energy Conference (SATIS '99)

Congress on Energy in Mexico

DC-Bus Workshop

Dominican Republic Renewable Energy Conference

Philippines Renewable Energy Workshop

Philippines Wind Energy Workshop

Thirteenth Annual Wind Diesel Conference

Village Power Planning Models Training

Windpower '99

Wind Energy Applications Training Seminar (WEATS)

World Renewable Energy Congress

World Bank Energy Week

NREL Contact

Web site: <http://www.rsvp.nrel.gov>

Julie Cardinal

NREL/National Wind Technology Center

phone: 303-384-7019

fax: 303-384-7097

e-mail: julie_cardinal@nrel.gov

Produced by the National Renewable Energy Laboratory, a U.S. Department of Energy national laboratory.

Printed with renewable source ink on paper containing at least 50% wastepaper, including 20% postconsumer waste.

NREL/FS-500-27734